

CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

Ultra Micro Drone

MODEL NUMBER: ASC-6216

FCC: 2ASK3ASC-6216R

REPORT NUMBER: 4789563954-1

ISSUE DATE: August 07, 2020

Prepared for

AMAX INDUSTRIAL GROUP CHINA CO.,LTD OFFICE NO.3 10/F WITTY COMMERCIAL BUILDING 1A-1L TUNG CHOI STREET MONGKOK KOWLOON HONG KONG

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

> Tel: +86 769 22038881 Fax: +86 769 33244054 Website: www.ul.com



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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	08/07/2020	Initial Issue	



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Summary of Test Results					
Clause	Test Items	FCC Rules	Test Results		
1	20dB Bandwidth and 99% Occupied Bandwidth	CFR 47 FCC §15.215 (c)	Pass		
2	Radiated Emission	CFR 47 FCC §15.249 (a)(d)(e) CFR 47 FCC §15.205 and §15.209	Pass		
3	Conducted Emission Test for AC Power Port	CFR 47 FCC §15.207	Pass		
4	Antenna Requirement	CFR 47 FCC §15.203	Pass		

Note 1: This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

Note 2: The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C> when <Accuracy Method> decision rule is applied.



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: AMAX INDUSTRIAL GROUP CHINA CO.,LTD

Address: OFFICE NO.3 10/F WITTY COMMERCIAL BUILDING 1A-1L

TUNG CHOI STREET MONGKOK KOWLOON HONG KONG

Manufacturer Information

Company Name: AMAX INDUSTRIAL GROUP CHINA CO.,LTD

OFFICE NO.3 10/F WITTY COMMERCIAL BUILDING 1A-1L Address:

TUNG CHOI STREET MONGKOK KOWLOON HONG KONG

EUT Information

EUT Name: Ultra Micro Drone

Model: ASC-6216 Sample Received Date: July 22, 2020

Normal Sample Status: Sample ID: 3226834

Date of Tested: July 22, 2020~ Aug 04, 2020

APPLICABLE STANDARDS		
STANDARD	TEST RESULTS	
CFR 47 FCC PART 15 SUBPART C	PASS	

STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C	PASS

Prepared By:

Checked By:

Mick Zhang **Project Engineer**

Mick. Zhang

Shawn Wen Laboratory Leader

Shewn les

Approved By:

Stephen Guo

Laboratory Manager

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 414788 D01 Radiated Test Site v01r01, FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

LA (Certificate No.: 4102.01)
Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
s been assessed and proved to be in compliance with A2LA.
C (FCC Designation No.: CN1187)
Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
s been recognized to perform compliance testing on equipment subject to
Commission's Declaration of Conformity (DoC) and Certification rules.
ED (Company No.: 21320)
Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
s been registered and fully described in a report filed with ISED. The
mpany Number is 21320.
CI (Registration No.: G-20019, R-20004, C-20012 and T-20011)
Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
s been assessed and proved to be in compliance with VCCI, the
mbership No. is 3793.
cility Name:
amber D, the VCCI registration No. is G-20019 and R-20004
elding Room B , the VCCI registration No. is C-20012 and T-20011

Note:

- 1. All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China
- 2. The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.
- 3. For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.



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4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62dB
Radiation Emission test (include Fundamental emission) (9KHz-30MHz)	2.2dB
Radiation Emission test (include Fundamental emission) (30MHz-1GHz)	4.00dB
Radiation Emission test	5.78dB (1GHz-18GHz)
(1GHz to 26GHz) (include Fundamental emission)	5.23dB (18GHz-26GHz)

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Ultra Micro Drone			
Model	ASC-6216			
Draduat Description	Operation Frequency		2402 MHz ~ 2479MHz	
Product Description	Modulation Type		GFSK	
Ratings	Input: DC 5.0V			
Supply Voltage	Battery DC 3.7V			

5.2. MAXIMUM FIELD STRENGTH

Frequency (MHz)	Channel Number	Max AVG field strength (dBμV/m)	
2479	78[78]	86.65	

5.3. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2402	23	2424	45	2446	67	2468
2	2403	24	2425	46	2447	68	2469
3	2404	25	2426	47	2448	69	2470
4	2405	26	2427	48	2449	70	2471
5	2406	27	2428	49	2450	71	2472
6	2407	28	2429	50	2451	72	2473
7	2408	29	2430	51	2452	73	2474
8	2409	30	2431	52	2453	74	2475
9	2410	31	2432	53	2454	75	2476
10	2411	32	2433	54	2455	76	2477
11	2412	33	2434	55	2456	77	2478
12	2413	34	2435	56	2457	78	2479
13	2414	35	2436	57	2458	/	/
14	2415	36	2437	58	2459	/	/
15	2416	37	2438	59	2460	/	/
16	2417	38	2439	60	2461	/	/
17	2418	39	2440	61	2462	/	/
18	2419	40	2441	62	2463	/	/
19	2420	41	2442	63	2464	/	/
20	2421	42	2443	64	2465	1	/
21	2422	43	2444	65	2466	/	/
22	2423	44	2445	66	2467	/	/



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5.4. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
1	2402~ 2479	Wire Antenna	0

Test Mode	Transmit and Receive Mode	Description
GFSK	⊠1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.

Note: The value of the antenna gain was declared by customer.

5.5. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
GFSK	CH 1(Low Channel), CH 40(MID Channel), CH 78(High Channel)	2402MHz, 2441MHz, 2479MHz

5.6. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2402 MHz ~ 2479 MHz Band				
Test Soft	ware Version	/		
Modulation Type	Transmit Antenna	Test Channel		
Woddiadon Type	Number	CH 1	CH 40	CH 78
GFSK	1	Default	Default	Default

5.7. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests		
Relative Humidity	55	5 ~ 65%	
Atmospheric Pressure:	1	025Pa	
Temperature	TN	22 ~ 28°C	
	VL	/	
Voltage:	VN	DC 3.7V	
	VH	/	

Note: VL= Lower Extreme Test Voltage

VN= Nominal Voltage

VH= Upper Extreme Test Voltage

TN= Normal Temperature



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5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

No support equipment.

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	/	USB to DC Cable	/	0.6	/

Note: The cable is provided by client.

ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1	Adapter	SAMSUNG	ETA0U83CBC	5Vdc,1A

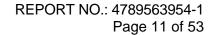
TEST SETUP

The EUT have an engineer mode inside.

SETUP DIAGRAM FOR TEST

EUT

Note: New battery was used during all tests.





5.9. MEASURING INSTRUMENT AND SOFTWARE USED

	Conducted Emissions									
Eq	uipment	Manufa	acturer	turer Model No.			Serial No.		Last Cal.	Due Date
	MI Test eceiver	R8	kS	ESR3			1019	61	Dec. 5, 2019	Dec. 5, 2020
	o-Line V- letwork	R8	ks .	EN	IV216		1019	83	Dec. 5, 2019	Dec. 5, 2020
					Sof	ftware				
		Descri	ption			N	/lanufa	cturer	Name	Version
Т	est Softwar	e for Co	nducted	Emis	sions		Fara	ad	EZ-EMC	Ver. UL-3A1
				R	adiated	Emis	sions			
						rumen				
Used			Manufad	cturer	Model	No.	Seria	al No.	Last Cal.	Next Cal.
	MXE E Recei	ver	KESIG	HT	N903	38A	MY56	400036	Dec. 6, 2019	Dec. 6, 2020
	Hybrid Periodic A	_	TDł	<	HLP-30	003C	130)959	Sept.17, 2018	Sept.17,2021
	Preamp		HP)	8447	7D	2944 <i>P</i>	09099	Dec. 5, 2019	Dec. 5, 2020
	EMI Measurement Receiver		R&S	3	ESR26		101	1377	Dec. 05, 2019	Dec.05, 2020
$\overline{\checkmark}$	Horn Antenna		TDł	<	HRN-0	0118	130	939	Sept. 17, 2018	Sept.17,2021
	Preamp	lifier	TDł	<	PA-02-	0118		-305- 067	Dec. 05, 2019	Dec.05, 2020
$\overline{\checkmark}$	Loop ant	tenna	Schwarz	zbeck	1519	9B	00	800	Jan.17, 2019	Jan.17, 2022
	Preamp	lifier	TDI	<	PA-02- 300			-302- 050	Dec. 05, 2019	Dec.05, 2020
	High Gair Anten		Schwarz	zbeck	BBHA-	9170	6	91	Aug.11,2018	Aug.11,2021
	Preamp	lifier	TDł	<	PA-0	2-2		-307- 003	Dec. 05, 2019	Dec.05, 2020
					Sof	ftware				
Used			iption		M	lanufa	cturer		Name	Version
\square	Test Software for Radiated disturbance			Fara			EZ-EMC	Ver. UL-3A1		
Other instruments										
Used	Equipm	nent	Manufad	cturer	Model		Seria	al No.	Last Cal.	Next Cal.
V	High Pass	s Filter	Wi		WHK> 2700-3 18000-	3000-	00- 23 [Dec. 05, 2019	Dec.05, 2020
\square	Band Reje	ct Filter	Wainw	right	WRC. 2350-2 2483 2533.5-	2400- 3.5-		4	Dec. 05, 2019	Dec.05, 2020



6. ANTENNA PORT TEST RESULTS
6.1. ON TIME AND DUTY CYCLE

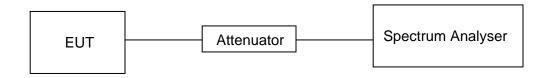
LIMITS

None; for reporting purposes only

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP



TEST ENVIRONMENT

Temperature	26.2°C	Relative Humidity	57%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

RESULTS

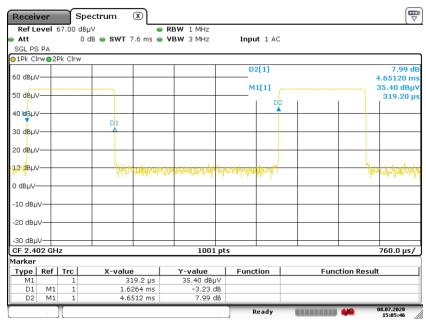
Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)
GFSK	35.78	100	0.3578	35.78	-8.93

Note: Duty Cycle Correction Factor=20log(x).

Where: x is Duty Cycle

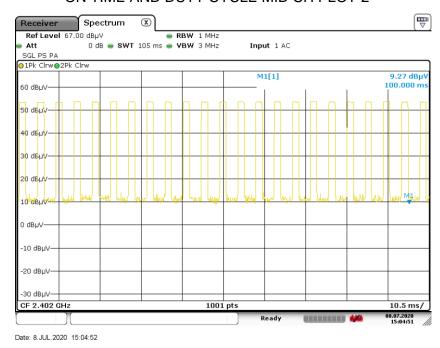


ON TIME AND DUTY CYCLE MID CH PLOT



Date: 8.JUL.2020 15:05:46

ON TIME AND DUTY CYCLE MID CH PLOT-2



Note: All the modes had been tested, but only the worst duty cycle recorded in the report.



6.2. 20 dB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.249) Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)			
CFR 47 FCC §15.215 (c)	20dB Bandwidth	for reporting purposes only	2400-2483.5			
ISED RSS-Gen Clause 6.7 Issue 5	99% Occupied Bandwidth	For reporting purposes only.	2400-2483.5			

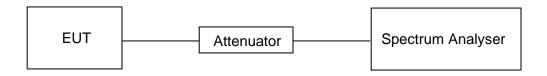
TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the occupied bandwidth
VBW	approximately 3xRBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB/99% relative to the maximum level measured in the fundamental emission.

TEST SETUP



TEST ENVIRONMENT

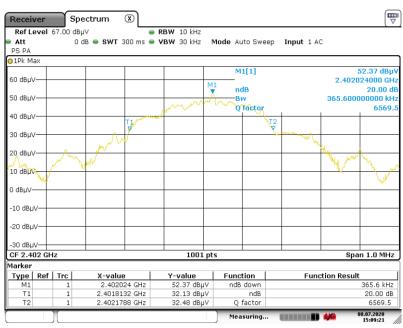
Temperature	26.2°C	Relative Humidity	57%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V



RESULTS

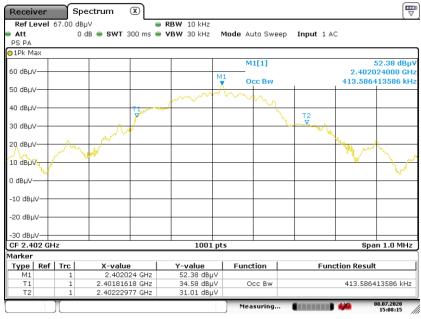
Frequency (MHz)	20dB bandwidth (MHz)	99% bandwidth (MHz)	Result
2402	0.366	0.414	PASS

20 dB BANDWIDTH LOW CH



Date: 8.JUL.2020 15:09:21

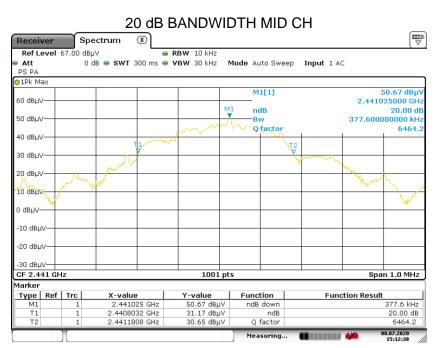
99% OCCUPIED BANDWIDTH LOW CH



Date: 8.JUL.2020 15:08:15

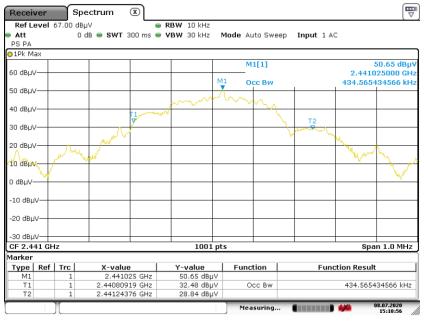


Frequency
(MHz)20dB bandwidth
(MHz)99% bandwidth
(MHz)Result24410.3780.435PASS



Date: 8.JUL.2020 15:12:38

99% OCCUPIED BANDWIDTH MID CH

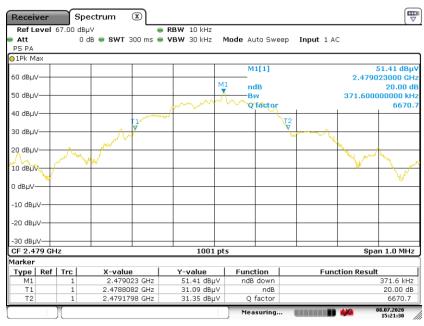


Date: 8.JUL.2020 15:10:56



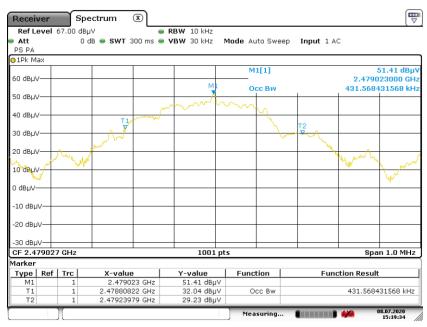
Frequency	20dB bandwidth	99% bandwidth	Result
(MHz)	(MHz)	(MHz)	
2479	0.372	0.432	PASS

20 dB BANDWIDTH HIG CH



Date: 8.JUL.2020 15:21:30

99% OCCUPIED BANDWIDTH HIG CH



Date: 8.JUL.2020 15:19:34

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7. RADIATED TEST RESULTS
7.1. LIMITS AND PROCEDURE

LIMITS

CFR 47 FCC §15.205 and §15.209

CFR 47 FCC §15.249 (a)(d)(c)(e)

The field strength of emissions from intentional radiators operated within these frequency bands							
Frequency (MHz)	. , , , , , , , , , , , , , , , , , , ,						
902 - 928	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3				
2400 – 2483.5	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3				
5725 – 5875	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3				

Emissions radiated outside of the specified frequency bands above 30MHz							
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	(dBuV/n	ngth Limit n) at 3 m -Peak				
30 - 88	100	40					
88 - 216	150	43.5					
216 - 960	200	46					
Above 960	500	54					
Above 1000	500	Peak Average 74 54					

FCC Emissions radiated outside of the specified frequency bands below 30MHz							
Frequency (MHz) Field strength (microvolts/meter) Measurement distance (meters)							
0.009-0.490 2400/F(kHz) 300							
0.490-1.705 24000/F(kHz) 30							
1.705-30.0							



FCC Restricted bands of operation:

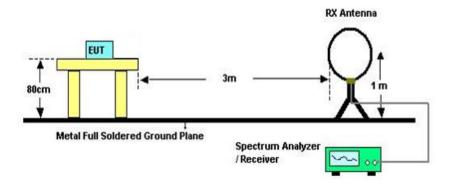
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ²Above 38.6c



TEST SETUP AND PROCEDURE

Below 30MHz

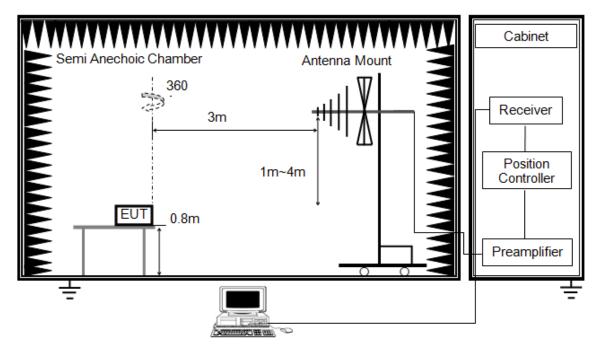


The setting of the spectrum analyser

RBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
VBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
Sweep	Auto
Detector	Peak/QP/ Average
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80cm meter above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1m height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open field site. Therefore, the sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

Below 1G



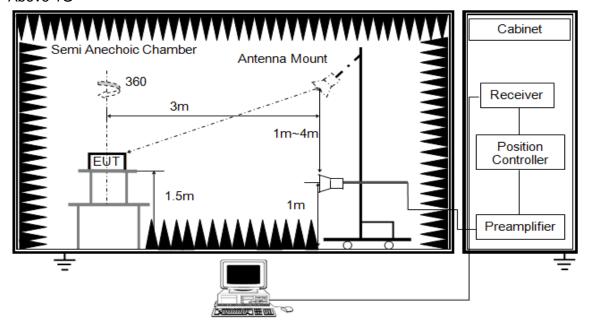
The setting of the spectrum analyser

RBW	120K
VBW	300K
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured



Above 1G



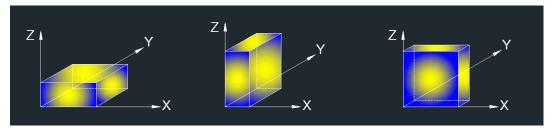
The setting of the spectrum analyser

RBW	1M
1/18///	PEAK: 3M AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (1.5 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter or band reject filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements. Where necessary, average emission are determined by applying the Duty Cycle Correction Factor to the peak measurements. For the Duty Cycle and Correction Factor please refer to clause 6.1. ON TIME AND DUTY CYCLE.



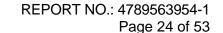
X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST ENVIRONMENT

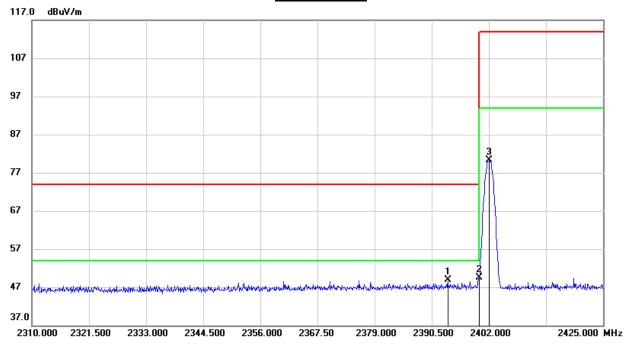
Temperature	23.5°C	Relative Humidity	58%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V





7.2. RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS

RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOW CHANNEL, HORIZONTAL)

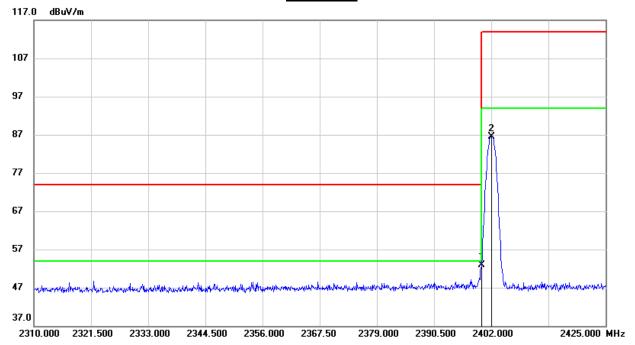


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2393.720	15.86	32.96	48.82	74.00	-25.18	peak
2	2400.000	16.45	32.98	49.43	74.00	-24.57	peak
3	2402.115	47.27	32.99	80.26	114.00	-33.74	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOW CHANNEL, VERTICAL)

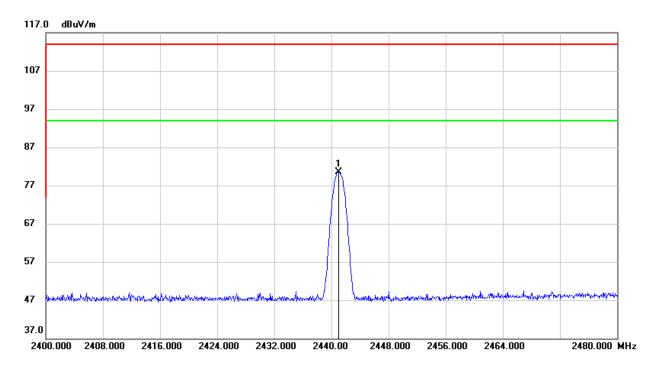


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2400.000	19.94	32.98	52.92	74.00	-21.08	peak
2	2402.115	53.60	32.99	86.59	114.00	-27.41	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



FIELD STRENGTH OF INTENTIONAL EMISSIONS (MIDDLE CHANNEL, HORIZONTAL)

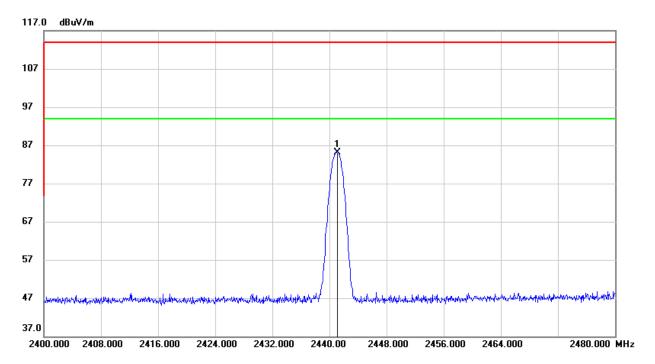


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2440.960	47.22	33.27	80.49	114.00	-33.51	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



FIELD STRENGTH OF INTENTIONAL EMISSIONS (MIDDLE CHANNEL, VERTICAL)



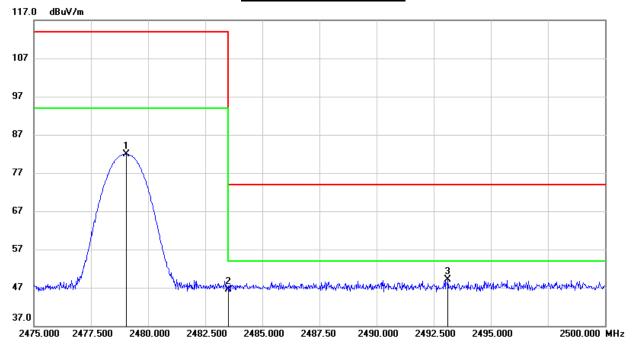
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2441.120	51.93	33.27	85.20	114.00	-28.80	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



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RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (HIGH CHANNEL, HORIZONTAL)

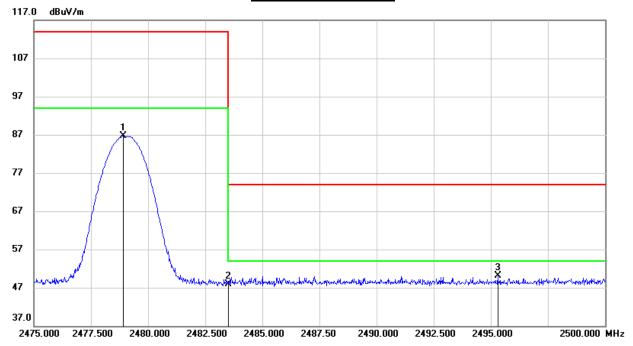


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2479.050	48.35	33.55	81.90	114.00	-32.10	peak
2	2483.500	12.89	33.58	46.47	74.00	-27.53	peak
3	2493.125	15.36	33.65	49.01	74.00	-24.99	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (HIGH CHANNEL, VERTICAL)



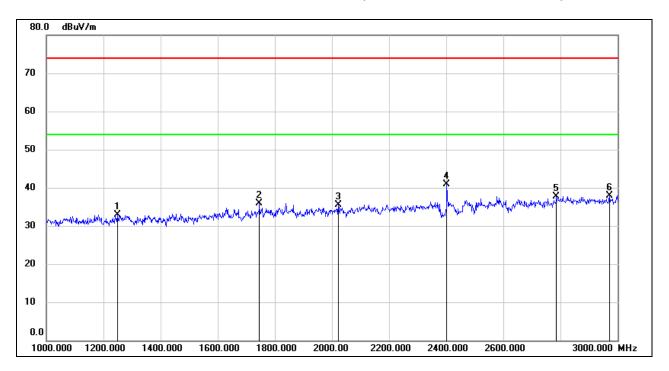
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2478.925	53.10	33.55	86.65	114.00	-27.35	peak
2	2483.500	14.32	33.58	47.90	74.00	-26.10	peak
3	2495.300	16.36	33.66	50.02	74.00	-23.98	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



7.3. SPURIOUS EMISSIONS (1~3GHz)

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

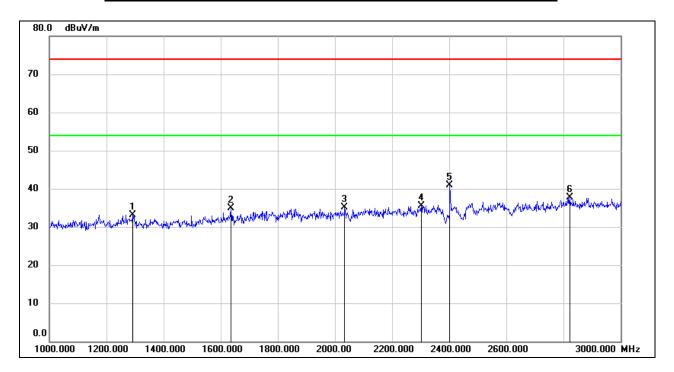


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1250.000	45.51	-12.51	33.00	74.00	-41.00	peak
2	1746.000	46.30	-10.45	35.85	74.00	-38.15	peak
3	2022.000	45.23	-9.68	35.55	74.00	-38.45	peak
4	2402.000	48.77	-7.85	40.92	/	/	fundamental
5	2786.000	43.90	-6.20	37.70	74.00	-36.30	peak
6	2972.000	43.30	-5.36	37.94	74.00	-36.06	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

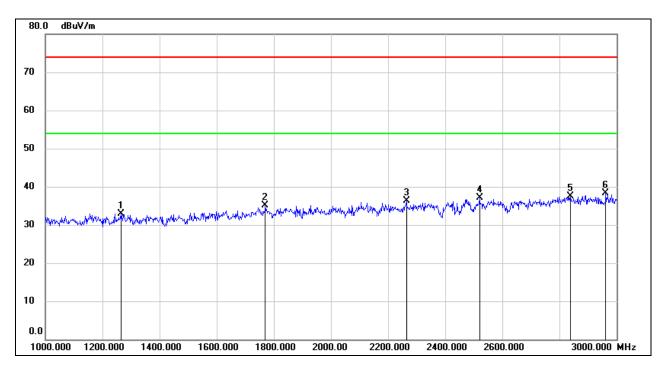


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1292.000	45.49	-12.36	33.13	74.00	-40.87	peak
2	1636.000	46.17	-11.21	34.96	74.00	-39.04	peak
3	2034.000	44.75	-9.59	35.16	74.00	-38.84	peak
4	2302.000	43.68	-8.19	35.49	74.00	-38.51	peak
5	2402.000	48.68	-7.85	40.83	/	/	fundamental
6	2822.000	43.58	-5.93	37.65	74.00	-36.35	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

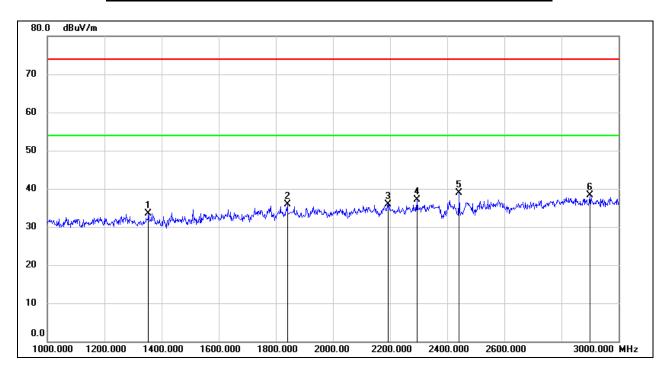


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1264.000	45.44	-12.46	32.98	74.00	-41.02	peak
2	1770.000	45.35	-10.21	35.14	74.00	-38.86	peak
3	2264.000	44.72	-8.36	36.36	74.00	-37.64	peak
4	2520.000	44.28	-7.27	37.01	74.00	-36.99	peak
5	2838.000	43.30	-5.85	37.45	74.00	-36.55	peak
6	2962.000	43.74	-5.39	38.35	74.00	-35.65	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

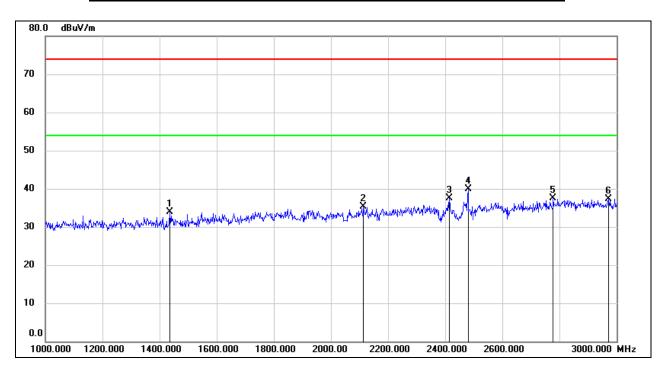


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1354.000	45.91	-12.36	33.55	74.00	-40.45	peak
2	1840.000	45.89	-9.93	35.96	74.00	-38.04	peak
3	2192.000	44.63	-8.70	35.93	74.00	-38.07	peak
4	2294.000	45.27	-8.21	37.06	74.00	-36.94	peak
5	2441.000	46.46	-7.58	38.88	/	/	fundamental
6	2900.000	43.82	-5.52	38.30	74.00	-35.70	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

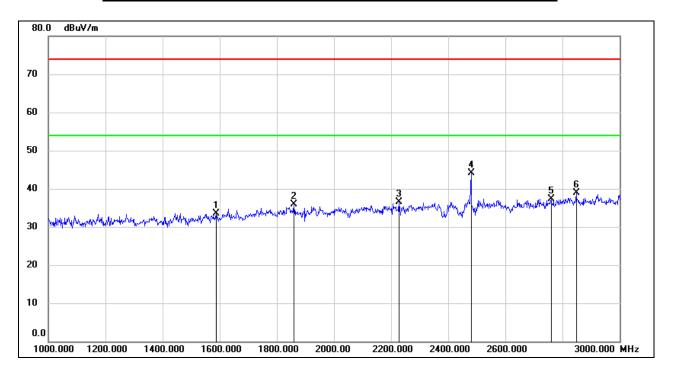


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1436.000	46.14	-12.33	33.81	74.00	-40.19	peak
2	2114.000	44.33	-9.08	35.25	74.00	-38.75	peak
3	2414.000	45.35	-7.76	37.59	74.00	-36.41	peak
4	2479.000	47.18	-7.32	39.86	/	/	fundamental
5	2778.000	43.90	-6.30	37.60	74.00	-36.40	peak
6	2972.000	42.70	-5.36	37.34	74.00	-36.66	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



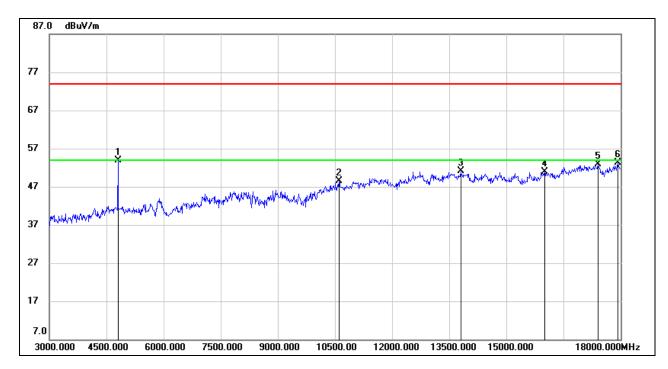
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1588.000	45.00	-11.50	33.50	74.00	-40.50	peak
2	1860.000	45.87	-9.93	35.94	74.00	-38.06	peak
3	2228.000	45.07	-8.53	36.54	74.00	-37.46	peak
4	2479.000	51.41	-7.32	44.09	/	/	fundamental
5	2760.000	43.85	-6.48	37.37	74.00	-36.63	peak
6	2848.000	44.72	-5.80	38.92	74.00	-35.08	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



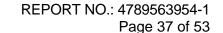
7.4. SPURIOUS EMISSIONS (3~18GHz)

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



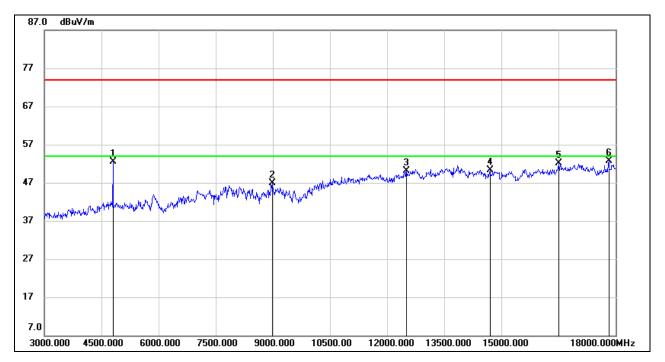
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4804.000	53.42	0.48	53.90	74.00	-20.10	peak
2	10605.000	36.51	11.93	48.44	74.00	-25.56	peak
3	13800.000	34.00	17.10	51.10	74.00	-22.90	peak
4	16005.000	33.12	17.71	50.83	74.00	-23.17	peak
5	17400.000	31.53	21.41	52.94	74.00	-21.06	peak
6	17925.000	29.90	23.37	53.27	74.00	-20.73	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. The High Pass filter loss factor already add into the correct factor.
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.





HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

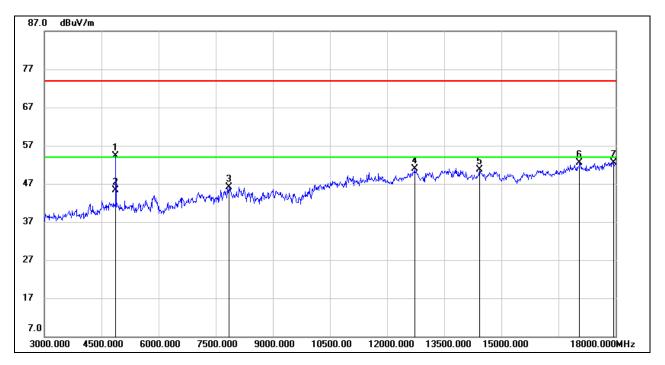


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4804.000	52.00	0.48	52.48	74.00	-21.52	peak
2	8985.000	37.70	9.14	46.84	74.00	-27.16	peak
3	12510.000	35.68	14.51	50.19	74.00	-23.81	peak
4	14700.000	34.30	16.05	50.35	74.00	-23.65	peak
5	16500.000	32.83	19.19	52.02	74.00	-21.98	peak
6	17820.000	29.44	23.30	52.74	74.00	-21.26	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. The High Pass filter loss factor already add into the correct factor.
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

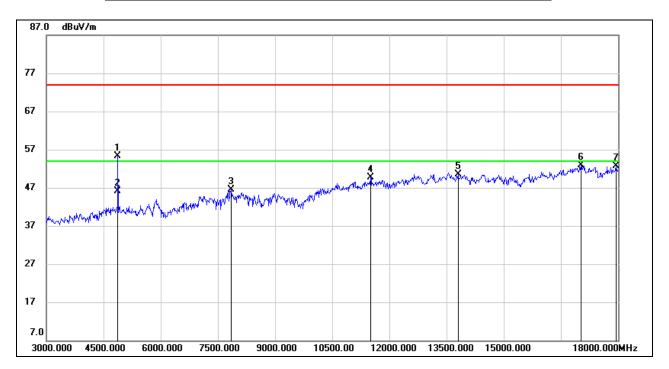


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4882.000	53.56	0.78	54.34	74.00	-19.66	peak
2	4882.000	44.63	0.78	45.41	54.00	-8.59	AVG
3	7845.000	38.54	7.62	46.16	74.00	-27.84	peak
4	12720.000	36.27	14.57	50.84	74.00	-23.16	peak
5	14430.000	34.43	16.35	50.78	74.00	-23.22	peak
6	17055.000	31.92	20.53	52.45	74.00	-21.55	peak
7	17940.000	29.16	23.39	52.55	74.00	-21.45	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
- 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
- 6. The High Pass filter loss factor already add into the correct factor.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

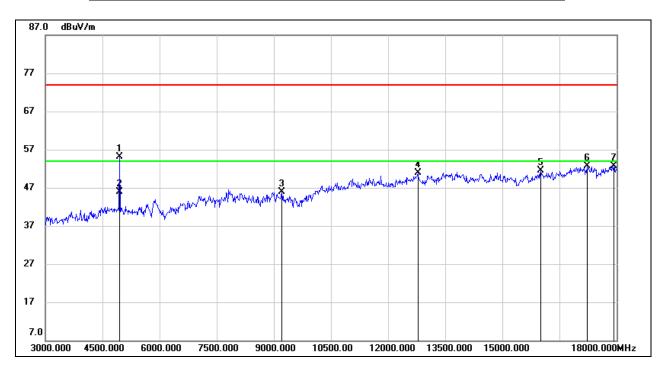


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4882.000	54.52	0.78	55.30	74.00	-18.70	peak
2	4882.000	45.59	0.78	46.37	54.00	-7.63	AVG
3	7845.000	38.80	7.62	46.42	74.00	-27.58	peak
4	11505.000	36.33	13.42	49.75	74.00	-24.25	peak
5	13800.000	33.34	17.10	50.44	74.00	-23.56	peak
6	17025.000	32.35	20.46	52.81	74.00	-21.19	peak
7	17940.000	29.27	23.39	52.66	74.00	-21.34	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
- 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
- 6. The High Pass filter loss factor already add into the correct factor.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

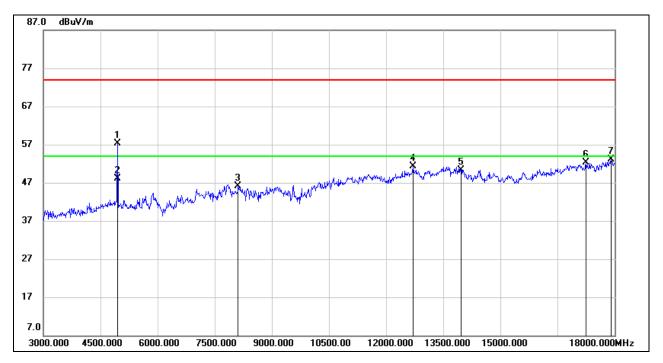


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4958.000	53.89	1.17	55.06	74.00	-18.94	peak
2	4958.000	44.96	1.17	46.13	54.00	-7.87	AVG
3	9210.000	37.26	8.70	45.96	74.00	-28.04	peak
4	12780.000	35.59	15.38	50.97	74.00	-23.03	peak
5	16005.000	33.78	17.71	51.49	74.00	-22.51	peak
6	17220.000	31.53	21.08	52.61	74.00	-21.39	peak
7	17925.000	29.28	23.37	52.65	74.00	-21.35	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
- 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
- 6. The High Pass filter loss factor already add into the correct factor.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



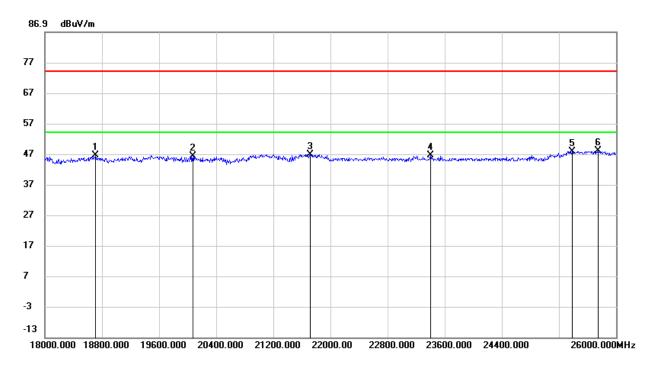
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4958.000	56.10	1.17	57.27	74.00	-16.73	peak
2	4958.000	47.17	1.17	48.34	54.00	-5.66	AVG
3	8115.000	38.30	7.90	46.20	74.00	-27.80	peak
4	12705.000	36.90	14.35	51.25	74.00	-22.75	peak
5	13965.000	34.23	16.09	50.32	74.00	-23.68	peak
6	17250.000	30.98	21.33	52.31	74.00	-21.69	peak
7	17910.000	29.77	23.35	53.12	74.00	-20.88	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
- 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
- 6. The High Pass filter loss factor already add into the correct factor.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



7.5. SPURIOUS EMISSIONS (18~26GHz)

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)

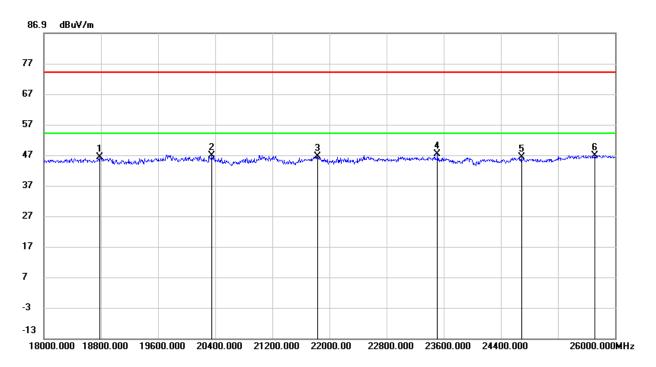


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18712.000	51.23	-4.76	46.47	74.00	-27.53	peak
2	20072.000	50.84	-4.51	46.33	74.00	-27.67	peak
3	21712.000	52.60	-5.75	46.85	74.00	-27.15	peak
4	23400.000	51.42	-4.96	46.46	74.00	-27.54	peak
5	25384.000	49.42	-1.53	47.89	74.00	-26.11	peak
6	25752.000	49.50	-1.35	48.15	74.00	-25.85	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18784.000	51.05	-4.84	46.21	74.00	-27.79	peak
2	20352.000	51.71	-4.91	46.80	74.00	-27.20	peak
3	21832.000	52.53	-5.92	46.61	74.00	-27.39	peak
4	23512.000	52.01	-4.76	47.25	74.00	-26.75	peak
5	24688.000	48.39	-2.11	46.28	74.00	-27.72	peak
6	25720.000	48.28	-1.39	46.89	74.00	-27.11	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

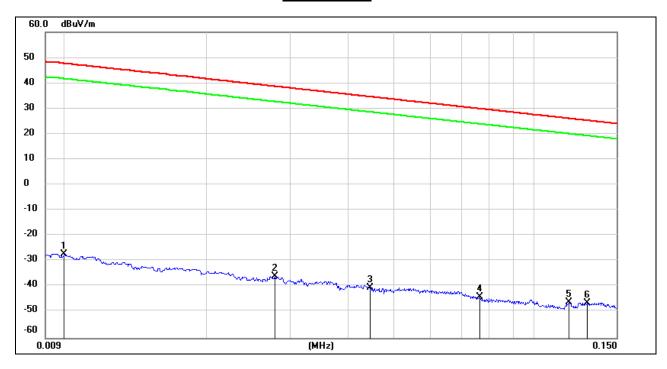
3. Peak: Peak detector.



7.6. SPURIOUS EMISSIONS BELOW 30MHz

SPURIOUS EMISSIONS (HIGH CHANNEL, LOOP ANTENNA FACE ON TO THE EUT, WORST-CASE CONFIGURATION)

9kHz~ 150kHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0100	74.22	-101.40	-27.18	47.60	-74.78	peak
2	0.0279	65.67	-101.38	-35.71	38.69	-74.40	peak
3	0.0446	61.16	-101.45	-40.29	34.61	-74.90	peak
4	0.0767	57.59	-101.61	-44.02	29.91	-73.93	peak
5	0.1188	55.56	-101.74	-46.18	26.11	-72.29	peak
6	0.1300	55.43	-101.70	-46.27	25.33	-71.60	peak

Note: 1. Measurement = Reading Level + Correct Factor.

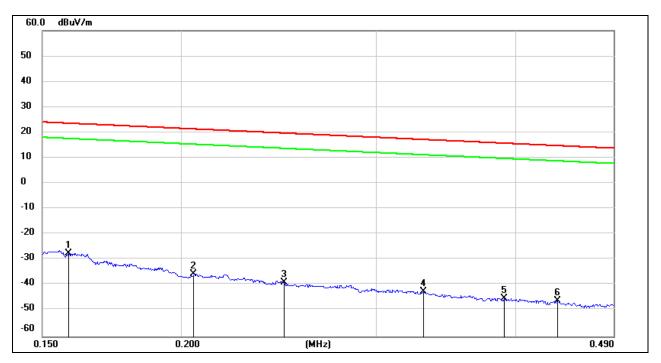
- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

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150kHz ~ 490kHz

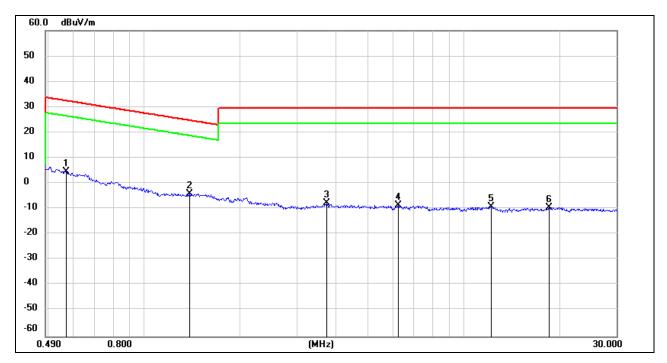


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1585	74.22	-101.65	-27.43	23.60	-51.03	peak
2	0.2053	66.29	-101.73	-35.44	21.35	-56.79	peak
3	0.2474	62.94	-101.80	-38.86	19.73	-58.59	peak
4	0.3305	59.53	-101.88	-42.35	17.22	-59.57	peak
5	0.3904	56.77	-101.95	-45.18	15.77	-60.95	peak
6	0.4364	55.86	-101.99	-46.13	14.80	-60.93	peak

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.



490kHz ~ 30MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.5705	66.87	-62.07	4.80	32.48	-27.68	peak
2	1.3810	57.97	-62.10	-4.13	24.80	-28.93	peak
3	3.7100	53.70	-61.41	-7.71	29.54	-37.25	peak
4	6.2445	52.63	-61.32	-8.69	29.54	-38.23	peak
5	12.2055	51.77	-60.90	-9.13	29.54	-38.67	peak
6	18.4908	51.55	-60.89	-9.34	29.54	-38.88	peak

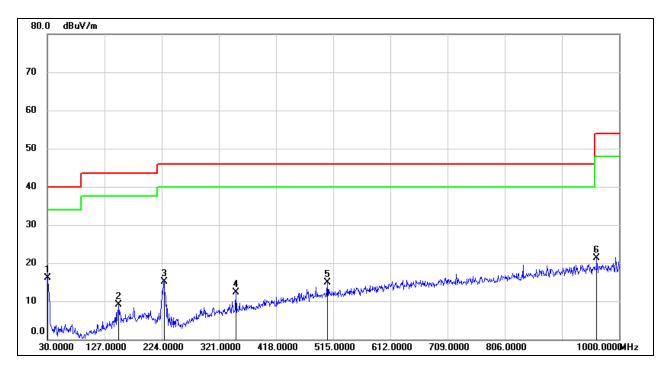
Note: 1. Measurement = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.



7.7. SPURIOUS EMISSIONS BELOW 1GHz AND ABOVE 30MHz

SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



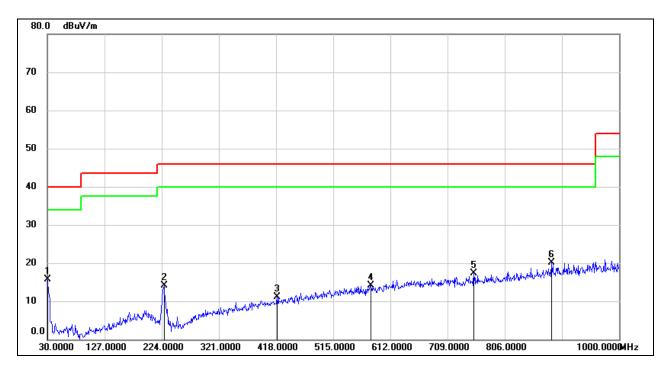
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.9700	35.19	-19.14	16.05	40.00	-23.95	QP
2	151.2500	27.44	-18.43	9.01	43.50	-34.49	QP
3	227.8800	33.99	-18.83	15.16	46.00	-30.84	QP
4	350.1000	26.90	-14.57	12.33	46.00	-33.67	QP
5	505.3000	26.31	-11.38	14.93	46.00	-31.07	QP
6	962.1700	26.27	-5.01	21.26	54.00	-32.74	QP

Note: 1. Result Level = Read Level + Correct Factor.

- 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.



SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.0000	34.67	-19.04	15.63	40.00	-24.37	QP
2	227.8800	32.86	-18.83	14.03	46.00	-31.97	QP
3	419.9400	24.16	-13.04	11.12	46.00	-34.88	QP
4	579.0200	24.35	-10.24	14.11	46.00	-31.89	QP
5	753.6200	25.64	-8.25	17.39	46.00	-28.61	QP
6	885.5400	25.99	-5.98	20.01	46.00	-25.99	QP

Note: 1. Result Level = Read Level + Correct Factor.

- 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

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8. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

Please refer to CFR 47 FCC §15.207 (a)

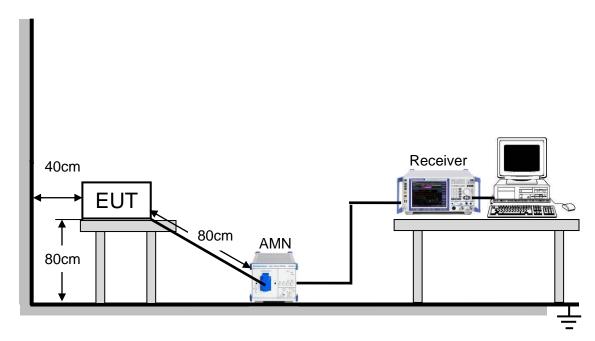
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.



TEST SETUP AND PROCEDURE



The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

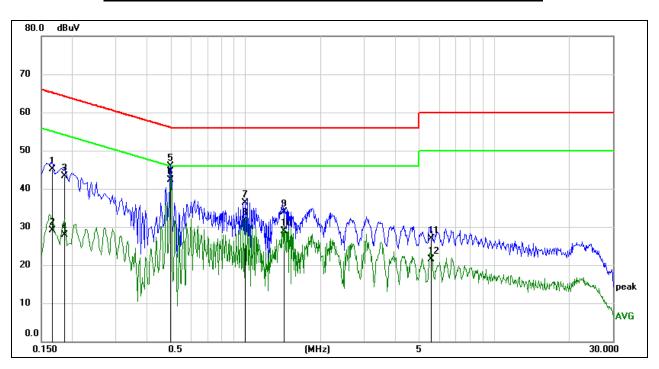
- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 2. The EUT was placed on the top of a rotating table 0.8 meters above the horizontal ground plane and being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 ohm/50uH of coupling impedance for the measuring instrument.
- 3. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 4. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 5. LISN at least 80 cm from nearest part of EUT chassis.
- 6. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.
- 7. The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.



TEST ENVIRONMENT

Temperature	26.4°C	Relative Humidity	66.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

LINE N RESULTS (HIGH CHANNEL, WORST-CASE CONFIGURATION)



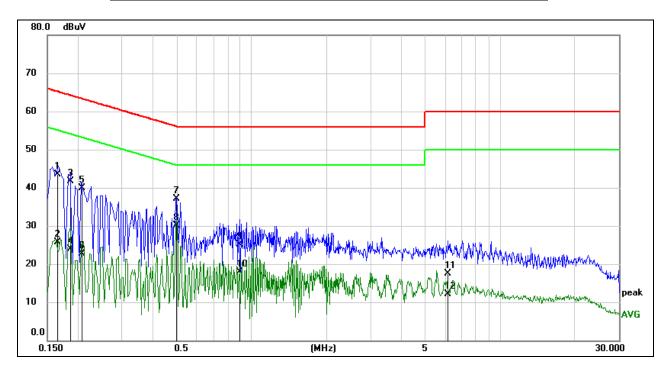
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1657	35.48	9.60	45.08	65.17	-20.09	QP
2	0.1657	19.54	9.60	29.14	55.17	-26.03	AVG
3	0.1867	33.76	9.60	43.36	64.18	-20.82	QP
4	0.1867	18.28	9.60	27.88	54.18	-26.30	AVG
5	0.4974	36.24	9.60	45.84	56.04	-10.20	QP
6	0.4974	32.80	9.60	42.40	46.04	-3.64	AVG
7	0.9940	26.67	9.61	36.28	56.00	-19.72	QP
8	0.9940	22.09	9.61	31.70	46.00	-14.30	AVG
9	1.4286	24.32	9.61	33.93	56.00	-22.07	QP
10	1.4286	19.33	9.61	28.94	46.00	-17.06	AVG
11	5.5710	17.30	9.69	26.99	60.00	-33.01	QP
12	5.5710	11.91	9.69	21.60	50.00	-28.40	AVG

Note: 1. Result = Reading +Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.



LINE L RESULTS (HIGH CHANNEL, WORST-CASE CONFIGURATION)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1647	33.80	9.61	43.41	65.22	-21.81	QP
2	0.1647	16.02	9.61	25.63	55.22	-29.59	AVG
3	0.1862	32.02	9.60	41.62	64.20	-22.58	QP
4	0.1862	14.25	9.60	23.85	54.20	-30.35	AVG
5	0.2062	30.24	9.60	39.84	63.36	-23.52	QP
6	0.2062	13.11	9.60	22.71	53.36	-30.65	AVG
7	0.4961	27.49	9.60	37.09	56.07	-18.98	QP
8	0.4961	20.43	9.60	30.03	46.07	-16.04	AVG
9	0.8903	15.51	9.60	25.11	56.00	-30.89	QP
10	0.8903	8.27	9.60	17.87	46.00	-28.13	AVG
11	6.1800	7.76	9.71	17.47	60.00	-42.53	QP
12	6.1800	2.41	9.71	12.12	50.00	-37.88	AVG

Note: 1. Result = Reading +Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

9. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RESULTS Complies	
	END OF REPORT